

REMARKS/ARGUMENTS

Favorable reconsideration of this application as presently amended and in light of the following discussion is respectfully requested.

Claims 14 and 17-30 are presently active in this case. Claims 14 and 17 are amended, Claims 18-30 are added, and Claims 1-13 and 15-16 are cancelled without prejudice or disclaimer by the present amendment.

In the outstanding Office Action, FIG. 1 was objected to as requiring a legend such as "Prior Art." Claims 1-13 and 15-16 were withdrawn from consideration after the provisional election filed July 30, 2004. Claim 14 was rejected under 35 U.S.C. § 102(b) as anticipated by Mitzlaff (U.S. Patent No. 5,757,229), and under 35 U.S.C. § 102(e) as anticipated by Hans (U.S. Patent No. 5,923,215). Claim 17 was objected to, but indicated as allowable if rewritten in independent form.

With regard to the objection to FIG. 1, enclosed herewith is a new substitute FIG. 1 including the legend "Conventional Art." Accordingly, it is respectfully requested that the objection to FIG. 1 be withdrawn.

Applicants and Applicants' representatives thank Examiner Henry Choe for the courtesies extended to Applicants' representatives during the personal interview conducted on September 9, 2004. During the personal interview, proposed claim amendments to Claim 14 were discussed in view of the cited references.<sup>1</sup> Examiner Choe noted that the amended claims would distinguish over the cited references. Accordingly, Applicants respectfully submit that the amendment to Claim 14 submitted herein corresponds substantially with the amended Claim 14 discussed during the personal interview. The present response also submits new Claims 23-30 not discussed during the interview.

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<sup>1</sup> The discussed claim amendments clarified the plurality of bias control circuits as including a first and second bias control unit, the first and second bias control units respectively including a current subtracting unit and a current adding unit.

Applicants also gratefully acknowledge the Examiner's indication of allowable subject matter in Claim 17. In light of this indication, new Claim 18 is added, corresponding substantially to original Claim 17 rewritten in independent form in view of greater clarity. As discussed during the personal interview, new Claim 18 does not alter the scope of allowable original Claim 17 in a way that would require the retraction of the previous indication of allowable subject matter.

Addressing now the rejection of Claim 14 under 35 U.S.C. § 102(b) over Mitzlaff, that rejection is respectfully traversed.

Amended Claim 14 is directed to a high-frequency amplifying device configured to amplify a high-frequency signal with a plurality of stages of amplifying elements. Further, the device includes a plurality of bias control circuits configured to respectively independently and continuously control biases applied to respective amplifying elements according to a value of amplitude measured by a measuring circuit. The plurality of bias control circuits include at least a first bias control unit and a second bias control unit. The first bias control unit includes a *current subtracting unit* configured to output a difference current corresponding to a difference between a first input current and a first predetermined current, and the second bias control unit includes a *current adding unit* configured to output a sum current corresponding to a sum of a second input current and a second predetermined current. Support for the claim amendments can be found at least at FIGs. 2, 6, and 10, and at page 27, line 2 through page 28, line 24 of the specification. Thus, it is respectfully submitted that no new matter is added.

Mitzlaff describes a carrier amplifier 105 and a peaking amplifier 107 arranged in parallel, the amplifiers respectively controlled by a carrier amplifier bias control 111 and a peaking amplifier bias control 113.<sup>2</sup> It is respectfully submitted that the carrier amplifier bias

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<sup>2</sup> Mitzlaff, at Col. 2, line 51 – Col. 3, line 43.

control 111 and peaking amplifier bias control 113 of Mitzlaff do not teach or suggest the plurality of bias control units recited in Applicants' amended Claim 14. In particular, as discussed during the personal interview, the bias controls 111, 113 of Mitzlaff are not taught as including a *current subtracting unit* or a *current adding unit*, as recited in the claims. Therefore, Mitzlaff does not teach or suggest all limitations of Applicants' amended Claim 14.

Accordingly, Applicants respectfully request the withdrawal of the rejection of Claim 14 under 35 U.S.C. § 102(b) based on Mitzlaff.

Addressing now the rejection of Claim 14 under 35 U.S.C. § 102(e) over Hans, that rejection is respectfully traversed.

Hans describes an amplifier 1 and transistors 2, 3, each transistor including base bias terminals 16 on respective bases 15 of the transistors. The base bias terminals 16 are coupled to the microprocessor controller 2. Bias voltages on respective base bias terminals 16 are supplied as bias control voltages from the microprocessor controller 2 to obtain a linearity of output RF voltage relative to input RF voltage.<sup>3</sup>

However, it is respectfully submitted that Hans does not teach or suggest the plurality of bias control units of Applicants' amended Claim 14. In particular, Hans is silent with regard to the base bias terminals 16 including a *current subtracting unit* or a *current adding unit*, as explicitly recited in the claims. Therefore, as discussed during the personal interview, Hans does not teach or suggest all limitations of Applicants' amended Claim 14.

Accordingly, Applicants respectfully request that the rejection of Claim 14 under 35 U.S.C. § 102(e) over Hans be withdrawn.

New dependent Claims 19-22 are considered allowable for at least the reasons motivated above with regard to base Claims 14 and 18. Support for the new claims can be

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<sup>3</sup> Hans, at Col. 3, lines 13-45.

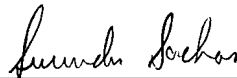
found at least at FIG. 10 of the specification. Thus, it is respectfully submitted that no new matter is added by new Claims 19-22.

Further, new Claims 23-30 are considered allowable for at least the reasons described above with regard to Claims 14 and 17-22. Claim 23 includes at least any one of a current adding circuit and a current subtracting circuit. Accordingly, these claims are further submitted as directed to the previously elected species.

Consequently, in view of the above discussion, it is respectfully submitted that the present application is in condition for formal allowance, and an early and favorable reconsideration of this application is therefore requested.

Respectfully submitted,

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IN THE DRAWINGS

The attached sheet of drawings includes relabelled FIG. 1. This sheet, which includes FIGs. 1 and 3, replaces the original sheet including FIGs. 1 and 3.

Attachment: Replacement Sheet